

# WEST Search History

DATE: Friday, May 30, 2003

## Set Name Query

side by side

## Hit Count Set Name

result set

*DB=USPT,PGPB,JPAB,EPAB,DWPI,TDBD; THES=ASSIGNEE;  
PLUR=YES; OP=AND*

L14	L11 and (electrode\$3 or anode or cathode)	210	L14
L13	L12 and (electrode\$3 or anode or cathode)	91	L13
L12	L11 and potential	251	L12
L11	L10 and (iron or Fe or "Fe.sup.2+" or "Fe.sup.+2" or "Fe.sup.3+" or "Fe.sup.+3")	1032	L11
L10	L9 and ((nitrate adj ion\$3) or "NO.sub.3")	1784	L10
L9	L8 and ((phosphoric adj acid) or "H.sub.3PO.sub.4")	13555	L9
L8	(phosphate adj ion\$3) or "PO.sub.4"	44537	L8
L7	L6 and ((oxidation near2 reduction near2 potential) or ORP)	6	L7
L6	L5 and (iron or Fe or "Fe.sup.2+" or "Fe.sup.+2" or "Fe.sup.3+" or "Fe.sup.+3")	71	L6
L5	L4 and ((nitrate adj ion\$3) or "NO.sub.3")	85	L5
L4	L3 and ((phosphoric adj acid) or "H.sub.3PO.sub.4")	254	L4
L3	L2 and ((phosphate adj ion\$3) or "PO.sub.4")	424	L3
L2	(phosphate or phosphorus) near3 (chemical or conversion) near3 (coating or film or layer or treatment)	1637	L2
L1	(phosphate or phosphorus) near3 (chmeical or conversion) near3 (coating or film or layer or treatment)	1160	L1

END OF SEARCH HISTORY

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(FILE 'HOME' ENTERED AT 10:47:58 ON 30 MAY 2003)

FILE 'CAPLUS' ENTERED AT 10:48:16 ON 30 MAY 2003

L1 5655 S PHOSPHATE (A) ION#  
L2 502 S L1 AND ((PHOSPHORIC (A) ACID) OR H.SUP.3PO.SUP.4)  
L3 714 S L1 AND ((PHOSPHORIC (A) ACID) OR H3PO4)  
L4 52 S L3 AND ((NITRATE (A) ION#) OR NO3)  
L5 17 S L4 AND (IRON OR FE? OR FERRIC OR FERROUS)  
L6 2 S L5 AND (ELECTRODE# OR ANODE OR CATHODE)

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(FILE 'HOME' ENTERED AT 10:47:58 ON 30 MAY 2003)

FILE 'CAPLUS' ENTERED AT 10:48:16 ON 30 MAY 2003

L1 5655 S PHOSPHATE (A) ION#  
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L5 17 S L4 AND (IRON OR FE? OR FERRIC OR FERROUS)  
L6 2 S L5 AND (ELECTRODE# OR ANODE OR CATHODE)

=> d 15 all 3

L5 ANSWER 3 OF 17 CAPLUS COPYRIGHT 2003 ACS  
AN 1998:742671 CAPLUS  
DN 129:346192  
TI Zinc phosphate coating solution for treatment of aluminum alloy  
IN Nishino, Toshinari; Izumi, Koichiro; Tsuge, Kenji; Miyamoto, Satoshi  
PA Honda Motor Co., Ltd., Japan; Nippon Paint Co., Ltd.  
SO Jpn. Kokai Tokkyo Koho, 8 pp.  
CODEN: JKXXAF  
DT Patent  
LA Japanese  
IC ICM C23C022-56  
ICS C23C022-13  
CC 56-6 (Nonferrous Metals and Alloys)  
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 10306382	A2	19981117	JP 1997-112314	19970430
	JP 3366826	B2	20030114		
PRAI	JP 1997-112314		19970430		

AB The title soln. contains Zn ion 0.1-2.0, Ni ion 0.1-4.0, Mn ion 0.1-3.0, **phosphate ion** 5-40, **nitrate ion** 0.1-15, nitrite ion 0.01-0.5, F compd. complex (as F) 0.5-1.0, F compd. (as F) 0.3-0.5, and **Fe**-chelating compd. (as **Fe**) 0.005-0.075 g/l. The uniform and dense Zn phosphate coating with high filiform corrosion can be formed by using the soln. The soln. is esp. useful for treating 6000 series Al alloys before cationic electrodeposition coating.

ST zinc phosphate coating soln aluminum alloy  
IT Coating process  
(phosphating; soln. for forming dense zinc phosphate coating with filiform corrosion resistance on aluminum alloy)

IT Fluorides, uses  
Nitrates, uses  
Nitrites  
RL: TEM (Technical or engineered material use); USES (Uses)  
(soln. for forming dense zinc phosphate coating with filiform corrosion resistance on aluminum alloy)

IT 77073-13-3  
RL: MSC (Miscellaneous)  
(soln. for forming dense zinc phosphate coating with filiform corrosion resistance on aluminum alloy)

IT 7439-89-6, **Iron**, uses 7439-96-5, Manganese, uses 7440-02-0, Nickel, uses 7440-66-6, Zinc, uses 7664-38-2D, **Phosphoric**

acid, ion, uses

RL: TEM (Technical or engineered material use); USES (Uses)  
(soln. for forming dense zinc phosphate coating with filiform  
corrosion  
resistance on aluminum alloy)

=>

## Patent Assignment Abstract of Title

### Total Assignments: 1

**Application #:** 10077777

**Filing Dt:** 02/20/2002

**Patent #:** NONE

**Issue Dt:**

**PCT #:** NONE

**Publication #:** NONE

**Pub Dt:**

**Inventors:** Shigeki Matsuda, Shin Nishiya

**Title:** Electrolytic phosphate chemical treatment method

### Assignment: 1

**Reel/Frame:** 012613/0644

**Received:**  
03/01/2002

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02/20/2002

**Mailed:**  
04/23/2002

**Pages:** 2

**Conveyance:** ASSIGNMENT OF ASSIGNORS INTEREST (SEE DOCUMENT FOR DETAILS).

**Assignors:** MATSUDA, SHIGEKI

**Exec Dt:** 02/12/2002

NISHIYA, SHIN

**Exec Dt:** 02/13/2002

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Search Results as of: 5/29/2003 12:23:33 P.M.

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L2: Entry 1 of 2

File: JPAB

Nov 17, 1998

PUB-NO: JP410306382A

DOCUMENT-IDENTIFIER: JP 10306382 A

TITLE: ZINC PHOSPHATE TREATING AGENT FOR ALUMINUM ALLOY

PUBN-DATE: November 17, 1998

## INVENTOR-INFORMATION:

NAME

COUNTRY

NISHINO, TOSHIYA

IZUMI, KOICHIRO

TSUGE, KENJI

MIYAMOTO, TOMOSHI

## ASSIGNEE-INFORMATION:

NAME

COUNTRY

HONDA MOTOR CO LTD

NIPPON PAINT CO LTD

APPL-NO: JP09112314

APPL-DATE: April 30, 1997

INT-CL (IPC): C23 C 22/56; C23 C 22/13

## ABSTRACT:

PROBLEM TO BE SOLVED: To provide a zinc-phosphate treating agent for an aluminum alloy forming uniform and dense zinc-phosphate coating excellent in filiform erosion resistance.

SOLUTION: This is a treating agent before coating for an aluminum alloy, particularly, a treating agent before coating for automotive bodies in which a part or the whole body is composed of a No. 6000 series aluminum alloy and is an aq. soln. essentially consisting of 0.1 to 2.0 g/l zinc ions, 0.1 to 4.0 g/l nickel ions, 0.1 to 3.0 g/l manganese ions, 5 to 40 g/l phosphoric acid ions, 0.1 to 15 g/l nitric acid ions and 0.01 to 0.5 g/l nitrous acid ions and, as fluorides, complex fluorides by 0.5 to 1.0 g/l expressed in terms of F and simple fluorides by 0.3 to 0.5 g/l expressed in terms of F and furthermore contg. the chelate compounds of iron by 0.005 to 0.075 g/l expressed in terms of Fe.

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